

### WHAT IS CLAIMED IS:

1. An adapter for screwdriver having elastic retainer ring comprising: a sleeve, a slide ring, a spring and a retainer ring, the slide ring being a column member interiorly defined with a multi-stage hole, at the front of which is provided with an cone inner ring having increased cone ratio, a secondary inner ring and a big inner ring in turn, the sleeve having a hexagonal socket hole defined at the front end thereof and at the same an annular groove defined for engaging with a C-shape ring, the retainer ring, the C-shape ring, the spring and a ring mounted to a assembling diameter of the sleeve, wherein the retainer ring has a gap and also has a internal diameter minor than the assembling diameter of the front end of the sleeve, the retainer ring is further axially provided with a flange in connecting with a downward flange, at the outer periphery of the assembling diameter of the sleeve thereof a hole is defined for the passage of the downward flange, through which, the downward flange is able to engage in the retainer groove of the screwdriver bit.

2. The adapter for screwdriver having elastic retainer ring as claimed in claim 1, wherein the retainer ring is further provided with a notch at both sides of the downward flange respectively.

3. The adapter for screwdriver having elastic retainer ring as claimed in claim 1, wherein the big inner ring is provided with a chamfer, which can be annular or dotted-formed for retaining the ring.

4. The adapter for screwdriver having elastic retainer ring as claimed in claim 1, wherein between the secondary inner ring of the slide ring and the flange of the retainer ring is defined with a clearance such that the downward flange is allowed to raised up in case of deformation  
5 of the flange.